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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/588,381	05/11/2007	Gerrit Wolk	016906-0536	8420
	7590 03/31/200 LARDNER LLP	EXAMINER		
SUITE 500	T NIII	DUONG, THO V		
3000 K STREET NW WASHINGTON, DC 20007			ART UNIT	PAPER NUMBER
			3744	
			MAIL DATE	DELIVERY MODE
			03/31/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/588,381	WOLK, GERRIT			
Office Action Summary	Examiner	Art Unit			
	Tho v. Duong	3744			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>02 Au</u>	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-12 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examiner 10) The drawing(s) filed on 02 August 2006 is/are: Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction.	vn from consideration. relection requirement. r. a) □ accepted or b) ☒ objected to the discount of the disc	e 37 CFR 1.85(a).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 8/2/06.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Regarding claim 9, the claimed limitation of "a cooling medium and/or is under a pressure of approximately 125 bar" renders the scope of the claim indefinite since "or" is an alternative expression, it is not clear what is the other alternative of "is under a pressure of approximately 125 bar".

Regarding claims 1 and 3, A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. See MPEP § 2173.05(c). Note the explanation given by the Board of Patent Appeals and Interferences in *Ex parte Wu*, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of *Ex parte Steigewald*, 131 USPQ 74 (Bd. App. 1961); *Ex parte Hall*, 83 USPQ 38 (Bd. App. 1948); and *Ex parte Hasche*, 86 USPQ 481 (Bd. App. 1949). In the present instance, claims 1 and 12 recites the broad recitation of approximately 5mm to 6.1 mm, and the claim also

Art Unit: 3744

recites "in particular 5 mm to 5.9 mm" (claim 1) and "in particular 5.9 mm" (claim 12) which is the narrower statement of the range/limitation. Claim 3 recites the broad recitation of "at least one internal flow channel" and the claim also recites "preferably a plurality of internal flow channels".

Claims 1-12 are further rejected as can be best understood by the examiner in which the broader range is considered and the alternative of "under a pressure of approximately 125 bar" is just a mere cooling medium.

Drawings

The drawings are objected to because figure 1 illustrates two different views of the invention. Similarly, figure 10 illustrates two different views of the related invention. Each "figure" should represent only one view of the invention. Furthermore, figure 10 is too dark to see some reference lines. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner,

the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Figure 10 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-10 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Sasaki et al. (US 5,743,328). Sasaki discloses (figures 1-7) a condenser comprising a heat exchanger having a plurality of flat tubes (1) having at least one internal channel connected to one collection and distribution device (23,24,3,4); the flat tube exhibits a linear course over the entire length of the tube; the tube has a width of 6 mm and a depth of 1.7 mm; the flat tubes are oriented at 90 degrees with the collection or distribution; the tubes are arranged on two levels; a plurality of ribs (2) disposed between the tubes.

Art Unit: 3744

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sasaki in view of Baba (US 5,628,206). Sasaki substantially discloses all of applicant's claimed invention as discussed above except for the limitation of a compressor, an expansion valve and an evaporator. Baba discloses (figure 2) a condenser is equipped in a system that includes a compressor (2); an evaporator (6) and an expansion valve (5) for a purpose of forming a refrigerating air conditioner device, that is capable of providing conditioned air to a vehicle. It would have been obvious to one having ordinary skill in the art at the time the invention was made to use Baba's teaching in Sasaki's device for a purpose of forming a refrigerating air conditioner device, that is capable of providing conditioned air to a vehicle.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Sasaki et al. (US 5,482,112) discloses a condenser.

Hoshino et al. (US 6,536,517) discloses an evaporator.

Tanaka (US 5,476,141) discloses a flat type refrigerant tube.

Nishishita (US 5,076,354) discloses a multi-flow type condenser.

Kato (US 5,518,070) discloses a stacked tube type heat exchanger.

Application/Control Number: 10/588,381 Page 6

Art Unit: 3744

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tho v. Duong whose telephone number is 571-272-4793. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tyler J. Cheryl can be reached on 571-272-4834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Tho v Duong/ Primary Examiner, Art Unit 3744 Application/Control Number: 10/588,381

Art Unit: 3744

Page 7